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=> s ((vapor pressure or reid vapor pressure) (l) motor gasoline)/lt

127 VAPOR PRESSURE/LT

1 REID VAPOR PRESSURE/LT

708 MOTOR GASOLINE/LT

L1 0 ((VAPOR PRESSURE OR REID VAPOR PRESSURE) (L) MOTOR GASOLIN
E)/LT

=> s ((vapor pressure or reid vapor pressure) and motor gasoline)/ct

4782 VAPOR PRESSURE/CT

23 REID VAPOR PRESSURE/CT

5851 MOTOR GASOLINE/CT

L2 238 ((VAPOR PRESSURE OR REID VAPOR PRESSURE) AND MOTOR GASOLIN
E)/CT

=> s (reid vapor pressure and motor gasoline)/ct

23 REID VAPOR PRESSURE/CT

5851 MOTOR GASOLINE/CT

L3 17 (REID VAPOR PRESSURE AND MOTOR GASOLINE)/CT

=> d 1-17

L3 ANSWER 1 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 94:7186 APIPAT;APIPAT2

FILE 'USPAT' ENTERED AT 12:45:15 ON 22 DEC 94

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* * * * *
*           W E L C O M E   T O   T H E           *
*           U . S .   P A T E N T   T E X T   F I L E           *
* * * * *
```

=> s (reid vapor pressure (p) gasoline)

1407 REID
129856 VAPOR
775571 PRESSURE

220 REID VAPOR PRESSURE
(REID(W) VAPOR (W) PRESSURE)

29698 GASOLINE

L1 149 (REID VAPOR PRESSURE (P) GASOLINE)

=> s (208 or 585)/clas
30594 208/CLAS
24078 585/CLAS

L2 48805 (208 OR 585)/CLAS

=> s l1 and l2

L3 40 L1 AND L2

=> d 1-40

1. 5,347,061, Sep. 13, 1994, Process for producing gasoline having lower benzene content and distillation end point; Mohsen N. Harandi, et al., **585/323**, **208/62**, **92**, **100**, **585/310**, **467**, **800** [IMAGE AVAILABLE]

2. 5,336,820, Aug. 9, 1994, Process for the alkylation of benzene-rich gasoline; Hartley Owen, et al., **585/323**, **313**, **449**, **467** [IMAGE AVAILABLE]

3. 5,326,926, Jul. 5, 1994, Isomerization with improved RVP and C4 recovery; Lynn H. Rice, **585/738**, **748** [IMAGE AVAILABLE]

4. 5,312,542, May 17, 1994, Hydrocarbon fuel and fuel systems; William L. Talbert, **208/16**, **17**, **585/14** [IMAGE AVAILABLE]

5. 5,288,393, Feb. 22, 1994, Gasoline fuel; Peter J. Jessup, et al., **208/16**, **14**, **15**, **18**, **585/14** [IMAGE AVAILABLE]

6. 5,254,790, Oct. 19, 1993, Integrated process for producing motor fuels; Gregory D. Thomas, et al., **585/717**, 568/697; **585/259**, **324**, **331**, **332**, **664**, **709** [IMAGE AVAILABLE]

7. 5,254,748, Oct. 19, 1993, Methyl-tertiary ether production; Harvey D. Hensley, et al., 568/697; **585/314**, **315**, **324**, **331**, **332**

[IMAGE AVAILABLE]

8. 5,208,402, May 4, 1993, Liquid fuels for internal combustion engines and process and apparatus for making same; Ewert J. A. Wilson, **585/1**;
208/16 , **17** ; **585/7** , **13** , **14** [IMAGE AVAILABLE]

9. 5,198,597, Mar. 30, 1993, Bimetallic catalysts for dehydroisomerization of N-butane to isobutene; Chi-Lin O'Young, et al.,
585/654 , **671** , **739** , **740** [IMAGE AVAILABLE]

10. 5,157,192, Oct. 20, 1992, Conversion of tertiary alcohols to C8+ olefins; Charles M. Sorensen, **585/640** , **324** , **639** [IMAGE AVAILABLE]

11. 5,093,533, Mar. 3, 1992, Blended gasolines and process for making same; Ewert J. A. Wilson, **585/1** ; **208/17** ; **585/7** , **13** ,
14 [IMAGE AVAILABLE]

12. 5,041,208, Aug. 20, 1991, Process for increasing octane and reducing sulfur content of olefinic gasolines; Randall D. Patridge, et al.,
208/138 , **217** , **244** [IMAGE AVAILABLE]

13. 5,026,938, Jun. 25, 1991, Process for upgrading light apparatus; Victor K. Shum, **585/417** , **419** [IMAGE AVAILABLE]

14. 5,015,356, May 14, 1991, Hydrocarbon fuel systems; William L. Talbert, **208/17** ; 44/451; **585/14** [IMAGE AVAILABLE]

15. 5,004,850, Apr. 2, 1991, Blended gasolines; Ewert J. A. Wilson, **585/1** ; **208/16** , **17** ; **585/7** , **13** [IMAGE AVAILABLE]

16. 4,962,266, Oct. 9, 1990, Process to convert linear alkanes; Victor K. Shum, **585/660** , **661** , **670** , **751** [IMAGE AVAILABLE]

17. 4,950,828, Aug. 21, 1990, Process for upgrading light paraffins; Victor K. Shum, **585/417** , **419** [IMAGE AVAILABLE]

18. 4,828,676, May 9, 1989, Process for the production of ultra high octane gasoline, and other fuels from aromatic hydrocrackates; Willard H. Sawyer, et al., **208/57** , **58** , **59** , **61** , **78** , **79** ,
80 , **89** , **144** ; **585/260** , **301** , **411** [IMAGE AVAILABLE]

19. 4,828,675, May 9, 1989, Process for the production of ultra high octane gasoline, and other fuels from aromatic distillates; Willard H. Sawyer, et al., **208/57** , **58** , **59** , **60** , **61** , **78** ,
79 , **80** , **89** , **144** ; **585/260** , **301** , **411** [IMAGE AVAILABLE]

20. 4,818,250, Apr. 4, 1989, Process for producing fuel from plant sources and fuel blends containing same; Robert D. Whitworth, 44/430; **585/9**, **13**, **14** [IMAGE AVAILABLE]
21. 4,812,146, Mar. 14, 1989, Liquid fuels of high octane values; Peter J. Jessup, 44/449; **585/14** [IMAGE AVAILABLE]
22. 4,808,763, Feb. 28, 1989, Process for upgrading light paraffins; Victor K. Shum, **585/415**, **417**, **419** [IMAGE AVAILABLE]
23. 4,806,701, Feb. 21, 1989, Process for upgrading light paraffins; Victor K. Shum, **585/417**, **419** [IMAGE AVAILABLE]
24. 4,773,916, Sep. 27, 1988, Fuel composition and method for control of octane requirement increase; Michael C. Croudace, et al., 44/440, 427, 441; **585/14** [IMAGE AVAILABLE]
25. 4,699,629, Oct. 13, 1987, Fuel composition and method for control of octane requirement increase; Michael C. Croudace, et al., 44/429; **585/14** [IMAGE AVAILABLE]
26. 4,607,129, Aug. 19, 1986, Catalytic dehydrocyclization and dehydrogenation of hydrocarbons; Fu M. Lee, **585/415**; **208/134**; **585/379**, **407**, **417**, **616**, **661** [IMAGE AVAILABLE]
27. 4,429,173, Jan. 31, 1984, Production of high-octane, unleaded motor fuel by alkylation of isobutane with isoamylenes obtained by dehydrogenation of isopentane; Thomas Hutson, Jr., et al., **585/331**, **314**, **315**, **316**, **332**, **716**, **717**, **719**, **723** [IMAGE AVAILABLE]
28. 4,387,257, Jun. 7, 1983, Motor fuel; Lyle D. Burns, **585/14** [IMAGE AVAILABLE]
29. 4,319,981, Mar. 16, 1982, Process for preparing a liquid fuel composition; Gary M. Singerman, 44/447; **208/263**, **403**; 568/630 [IMAGE AVAILABLE]
30. 4,228,509, Oct. 14, 1980, Multivariable control system for regulating process conditions and process optimizing; James P. Kennedy, 364/501; **208/133**, **DIG.1**; 364/153, 194 [IMAGE AVAILABLE]
31. 4,036,735, Jul. 19, 1977, Process for upgrading motor gasoline; Ronald R. Roselius, et al., **208/89**, **66** [IMAGE AVAILABLE]
32. 3,981,942, Sep. 21, 1976, HF alkylation process and reaction

temperature control system; Robert F. Zabransky, **585/701**;
208/DIG.1; 364/500; **585/719** , **723** [IMAGE AVAILABLE]

33. 3,976,179, Aug. 24, 1976, Controlling the temperature of a
depropanizer tower by chromatographic analysis of feed and bottoms;
Charles W. Harrison, et al., 196/132; 202/160; 203/3; **208/354** ,
DIG.1 [IMAGE AVAILABLE]

34. 3,972,957, Aug. 3, 1976, HF alkylation reaction temperature control
system; Robert F. Zabransky, **585/701**; **208/DIG.1**; 364/500;
585/719 , **723** [IMAGE AVAILABLE]

35. 3,969,078, Jul. 13, 1976, HF Alkylation reaction temperature control
system; Robert F. Zabransky, 422/109; 364/153, 166, 501; 436/55;
585/701 , **723** [IMAGE AVAILABLE]

36. 3,937,749, Feb. 10, 1976, HF Alkylation reaction temperature
control; Robert F. Zabransky, **585/701**; **208/DIG.1**; 364/153, 166,
500; **585/723** [IMAGE AVAILABLE]

37. 3,904,508, Sep. 9, 1975, Production of gasoline; Thaddeus E. Whyte,
Jr., et al., **208/17**; **585/14** [IMAGE AVAILABLE]

38. 3,813,925, Jun. 4, 1974, DETERMINATION OF THE TEMPERATURE REQUIRED
FOR A PREDETERMINED VOLATILITY RATIO; Ellsworth R. Fenske, et al.,
585/1; 137/3 [IMAGE AVAILABLE]

39. 3,718,706, Feb. 27, 1973, HEXANE CONVERSION; Robert P. Sieg,
585/310 , **708** , **737** [IMAGE AVAILABLE]

40. 3,676,522, Jul. 11, 1972, DISPROPORTIONATION AND ISOMERIZATION FOR
ISOPENTANE PRODUCTION; Robert P. Sieg, **585/303** , **310** , **708** ,
739 [IMAGE AVAILABLE]

DN 9422867
TI Low Reid Vapour Pressure liquid gasoline - consisting of 6C to 9C or
10C hydrocarbon(s)
IN TALBERT W L
PA TALBERT FUEL SYSTEMS INC
PI US 5312542 940517
AI US 79-70683 790829
US 83-463251 830202
US 84-638069 840806
US 86-833038 860226
US 86-941833 861215
US 88-236162 880825
US 89-426859 891026
US 91-790029 911106
US 92-908560 920630
PRAI US 92-908560 920630
US 91-790029 911106
US 89-426859 891026
US 88-236162 880825
US 86-941833 861215
US 86-833038 860226
US 84-638069 840806
US 83-463251 830202
US 79-70683 790829
OS DERWENT 94159046

L3 ANSWER 2 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 94:7182 APIPAT;APIPAT2
DN 9422863

TI Lead-free high-octane gasoline with cold startability - comprises
selected five and six carbon paraffinic hydrocarbon(s), selected
five carbon non-paraffinic hydrocarbons and methyl tert. butyl ether
cpd

IN AKIMOTO J; NISHIDA T; OMATA T
PA NIPPON OIL KK; NIPPON OIL CO LTD
PI EP 596611 940511
DS DE; FR; GB
AI EP 93-308099 931012
PRAI JP 92-301855 921014
OS DERWENT 94152994
LA English

L3 ANSWER 3 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 94:4148 APIPAT;APIPAT2
DN 9421757

TI Gasoline fuels giving reduced emission of pollutants - having
limited Reid vapour pressure, distillation Points and olefin content

IN CROUDACE M C; JESSUP P J
PA UNION OIL CO CALIFORNIA
PI US 5288393 940222
AI US 90-628488 901213
PRAI US 90-628488 901213
OS DERWENT 94064770

L3 ANSWER 4 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 94:1198 APIPAT;APIPAT2
DN 9410497

TI Prodn. of high octane alkyl tert. alkyl ether(s) for gasoline fuels
- by contacting isoolefin(s), diene(s), alkanol and co-fed hydrogen
feedstream with regeneratable acidic metallosilicate catalyst
particles of zeolite pref. contg. platinum or palladium

IN LE Q N; THOMSON R T
PA MOBIL OIL CORP
PI EP 573185 931208
DS BE; DE; ES; FR; GB; IT; NL
AI EP 93-303963 930521
PRAI US 92-896072 920602
OS DERWENT 93388276
LA English

L3 ANSWER 5 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 93:9046 APIPAT;APIPAT2
DN 9324151

TI Control and prediction of multicomponent fluid blends, esp.
gasoline, properties - by measuring absorbence values pref. in the
IR range, metering the fraction of each component, etc

IN MAGGARD S M
PA ASHLAND OIL INC
PI US 5223714 930629
AI US 91-797832 911126
PRAI US 91-797832 911126
OS DERWENT 93280091

L3 ANSWER 6 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 93:3804 APIPAT;APIPAT2
DN 9321859

TI Vaporised fuel control system for IC engine of vehicle - senses
alcohol concn. and presumes reid vapour pressure in response, and
regulates fuel tank pressure by adjusting amount of vaporised fuel
to be extracted from tank

IN KITAJIMA S; KOBAYASHI Y; SUGA T
PA HONDA GIKEN KOGYO KK
PI US 5190014 930302
AI US 91-801285 911202

PRAI JP 90-336802 901130
OS DERWENT 93092922

L3 ANSWER 7 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 93:3749 APIPAT;APIPAT2
DN 9321765

TI Lead-free high performance gasoline suitable for racing car use -
contains toluene, n-heptane, isopentane, C4 fraction of distillate
and opt. tert.-butyl ether

IN HOZUMI A; IKEBE H; MIYAMOTO K; NINOMIYA Y; SHIMIZU A; YAMADA S
PA COSMO OIL CO LTD; COSMO RES INST; COSMO SOGO KENKYUSHO KK; FUJI
HEAVY IND LTD

PI EP 530745 930310

DS DE; FR; GB; IT

AI EP 92-114918 920901

PRAI JP 91-254645 910905

OS DERWENT 93078311

LA English

L3 ANSWER 8 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 92:1844 APIPAT;APIPAT2
DN 9220833

TI Gasoline fuels giving reduced exhaust prod. reactivity - contg.
cyclopentadienyl manganese tricarbonyl cpds. instead of aromatics

PA Ethyl Corp

PI EP 466512 920115

DS BE; DE; ES; FR; GB; IT

PRAI US 90-552090 900713

OS DERWENT 92018102

L3 ANSWER 9 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 92:1843 APIPAT;APIPAT2
DN 9220832

TI Gasoline fuels with low vapour pressure - contg. cyclopentadienyl
manganese tricarbonyl cpds. as octane improvers

PA Ethyl Petrol Addit

PI EP 466511 920115

DS BE; DE; ES; FR; GB; IT

PRAI US 90-552446 900713

OS DERWENT 92018101

L3 ANSWER 10 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 91:5433 APIPAT;APIPAT2
DN 9122160

TI Lead-free high-performance gasoline - contains methyl tert. butyl
ether, catalytically reformed gasoline and catalytically cracked
gasoline

PA Cosmo Sogo Kenkyush; Cosmo Sekiyu KK
PI JP 3093894 910418
PRAI JP 89-230696 890906
OS DERWENT 91159432

L3 ANSWER 11 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 91:5430 APIPAT;APIPAT2
DN 9122157
TI Gasoline compsns. having limited carbon ranges - of use with
standard or modified carburation system
PA Talbert W L
PI US 5015356 910514
PRAI US 90-569367 900815
OS DERWENT 91163474

L3 ANSWER 12 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 91:4438 APIPAT;APIPAT2
DN 9121693
TI Gasoline blends with good vapour pressure and octane rating -
contain low mol.wt. hydrocarbon(s) natural gasoline and toluene
PA Interstate Chem Inc
PI US 5004850 910402
PRAI US 89-447543 891208
OS DERWENT 91117046

L3 ANSWER 13 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 90:10277 APIPAT;APIPAT2
DN 9023225
TI Improving fuel combustion efficiency - by using low vapour pressure
intermediate range gasoline, opt. with improved carburettor system
PA Talbert Fuel Syst
PI US 4955332 900911
PRAI US 88-236162 880825
OS DERWENT 90296995

L3 ANSWER 14 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN 89:3255 APIPAT;APIPAT2
DN 8921132
TI Unleaded fuel compsn. with octane value of 100 or more - consists of
toluene and alkylate and at least 2 members of MTBE, isobutane and
n-butane, octane value being predictable by giving formula
PA Union Oil Co California
PI US 4812146 890314
PRAI US 88-204624 880609
OS DERWENT 89099435

L3 ANSWER 15 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 89:2672 APIPAT;APIPAT2
 DN 8920972
 TI Inexpensive fuel extender for lead-free gasoline - comprises naphtha, anhydrous ethanol, aromatics and ethyl acetate and/or methyl isobutyl ketone as water repellent
 PA Prepolene Inds Inc
 PI US 4806129 890221
 PRAI US 88-206675 880615
 OS DERWENT 89076766

L3 ANSWER 16 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
 AN 89:2024 APIPAT;APIPAT2
 DN 8920783
 TI Prepn. of unleaded, high octane fuel oil - by mixing reformat obtd. from desulphurised naphtha, alkylate obtd. by reacting isobutane with lower olefin and isopentane
 PA Idemitsu Kosan KK
 PI JP 63317592 881226
 PRAI JP 87-153837 870619
 OS DERWENT 89044075

L3 ANSWER 17 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
 AN 89:2023 APIPAT;APIPAT2
 DN 8920782
 TI Unleaded high octane high performance fuel oil - comprises reformat, alkylate and isopentane fraction
 PA Idemitsu Kosan KK
 PI JP 63317591 881226
 PRAI JP 87-153836 870619
 OS DERWENT 89044074

=> d ab 17

L3 ANSWER 17 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
 AB Fuel oil contains (A) a reformat of 101.5 or higher research octane number (RON), 0.3 kg/cm2 or higher Reid vapour pressure and 30-200 deg.C b.pt., (B) an alkylate, and (C) an isopentane fraction of 90-95 research octane number. It has 99.5 higher research octane number, 88.6 or higher motor octane number (MON) and contains 50 vol.% less aromatics content and 25 vol.% or more summed fraction distilled up to 70 deg.C. Another new oil contains additionally (D) light catalytic-cracking gasoline of 93.5-96.5 research octane number, 0.6-1.05 mg/cm2 Reid vapour press., and 25-100 deg.C b.pt. and has the same characteristics. USE/ADVANTAGE - With the high RON and MON and balanced vapour pressure, distilling characteristics and aromatic contents, the oil has a good antiknock property, esp. at

high speeds, and good operatability, startability, combustibility,
and acceleration at low temps. @(6pp Dwg.No.0/0)@